

AK series

Features

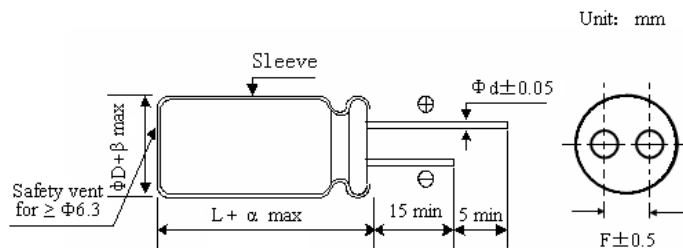
- ◆ Ultraminisized for AC-adapter of portable device .
- ◆ Load life 105°C 2000hours .
- ◆ RoHS Compliant .



Specifications

Item	Performance Characteristics	
Temperature Range	-25~+105°C	
Rated Voltage Range	400Vdc	
Capacitance Range	4.7~15µF	
Capacitance Tolerance	±20% (120Hz, +20°C)	
Leakage Current (+20°C,max.)	I≤0.02CV+30 (µA) After 2 minutes, whichever is greater measured with rated working voltage applied	
Dissipation Factor(tgδ) 120Hz, +20°C	Working Voltage(Vdc)	400
	D.F.(%)max.	25
Low Temperature Characteristics(120Hz)	Impedance ratio max.	
	Working Voltage(Vdc)	400
	Z-25°C/ Z+20°C	6
Endurance	After application of DC voltage with the rated Ripple Current at 105°C 2,000hours, the capacitor shall meet the requirement below	
	Capacitance Change	≤±25% of the initial value
	D.F.(tgδ)	≤200% of the initial specified value
	Leakage Current	≤The initial specified value
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C.	
	Capacitance Change	≤±25% of the initial value
	D.F.(tgδ)	≤200% of the initial specified value
	Leakage Current	≤200% The initial specified value
Others	JISC-5101(IEC 60384)	

Diagram of Dimensions



ΦD	8	10
F	3.5	5.0
Φd	0.5	0.6
α	+ 1.5 Max	
β	+ 0.5 Max	

Frequency Multipliers

Cap(µF) \ f(Hz)	60(50)	120	1K	≥10K
4.7~15	0.50	1.00	1.30	1.50

Voltage	400	
	Case Size	Ripple Current
4.7	8×9	48
5.6	8×11.5	59
6.8	10×9	67
8.2	8×14	77
10	8×16	90
12	10×14	106
15	10×16	126

Max Allowable Ripple Current (mA,rms) at 105°C 120Hz,Case Size ΦD×L(mm)